

Assigned DOGM File No.: S/017/0001

DOGM Lead: _____

Permit Fee \$ _____ Ck# _____

TASK: 4812

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1594 West North Temple Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801
Telephone: (801) 538-5291 Fax: (801) 359-3940

RECEIVED

MAY 04 2012

Div. of Oil, Gas & Mining

NOTICE OF INTENTION TO COMMENCE SMALL MINING OPERATIONS

The information requirements of this form are based on provisions of the Mined Land Reclamation Act, Title 40-8, Utah Code Annotated 1987, and the General Rules as promulgated under the Utah Minerals Regulatory Program (R647). The rules and Act are available online at <http://www.rules.utah.gov/publicat/code/r647/r647.htm> and http://le.utah.gov/~code/TITLE40/40_08.htm.

Cultural Resources Survey: To fulfill its obligations under Utah Code Annotated 9-8-404, the Division needs cultural resource (archaeology) information. The amount and type of information required will depend on the mine location, the history of previous disturbance, and other factors. Please contact the Division for further information.

A permit fee of \$150 or \$500 must accompany this application (Utah Code Ann. §40-8-7(1)(i)) and is due annually. The fee is \$150 for a mine with a disturbed area of five acres or less, and the fee is \$500 if the disturbed area is between five and ten acres.

"Small Mining Operations" are operations which have a disturbed area of ten or fewer surface acres at any time in unincorporated areas, or five acres or fewer in incorporated areas.

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I. GENERAL INFORMATION (Rule R647-3-104)

MAY 07 2012

1. Name of Mine: Ticaboo Stockpile Removal Project
2. Operator Name (Legal Name): Ucolo Exploration Corp.

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Mailing Address: Suite 960, 1055 West Hastings Street
City, State, Zip: Vancouver, BC, Canada V6E 2E9
Phone: Toll Free: (877) 792-6688 Fax: (604) 682-3860
E-mail Address: lore@summitpointuranium.com

Type of Business: Corporation (X), LLC (), Sole Proprietorship (dba) ()
General Partnership (), Limited Partnership (), Individual ().

Business Entity (not individuals) must be registered (and maintain registration) with the State of Utah, Division of Corporations (DOC) If not currently registered, contact www.commerce.utah.gov to renew or apply. Business Entity #: 689897045-0142

Local Business License #: Not required. (if required)

Issued by: County: _____ or City: _____

3. Contact Person(s):

Registered Utah Agent (as identified with the Utah DOC) (if individual leave blank):

Name: CT Corporation System Title: _____
Address: 1108 E. South Union Avenue
City, State, Zip: Midvale, Utah 84047
Phone: 801-984-8160 Fax: Not applicable.
E-mail Address: Not applicable.

I.3. Contact Person(s) (continued):

This person to be notified for: permitting (X) surety (X) (check all that apply)

Name: Loree Gregg Title: Corporate Paralegal

Address: Suite 960, 1055 West Hastings Street

City, State, Zip: Vancouver, BC, CANADA V6E 2E9

Phone: Toll free: (877) 792-6688 Fax: (604) 682-3860

Emergency, Weekend, or Holiday Phone: (775) 770-4615 (Nancy Wolverson)

E-mail Address: lore@summitpointuranium.com

This person to be notified for: permitting (X) surety (X) (check all that apply)

Name: Nancy Wolverson Title: Vice President, Exploration

Address: 7830 Fire Opal Lane

City, State, Zip: Reno, Nevada, USA, 89506

Phone: (775) 770-4615 Fax: Not applicable

Emergency, Weekend, or Holiday Phone: (775) 770-4615

E-mail Address: nancyjeanw@aol.com

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This person to be notified for: permitting (X) surety (X) (check all that apply)

Name: Rich DeLong Title: President, Enviroscentists, Inc.

Mailing Address: 1650 Meadow Wood Lane

City, State, Zip: Reno, Nevada, USA, 89502

Phone: (775) 826-8822 Fax: (775) 826-8857

Emergency, Weekend, or Holiday Phone: (775) 826-8822

E-mail Address: rdelong@environcus.com

4. If Business is a Sole Proprietor (dba) or Individual:

Name of Owner: Not applicable Title: _____

Business Address: _____

City, State, Zip: _____

Phone: _____ Fax: _____

E-mail Address: _____

If Business is a Corporation:

Name of Officers: Todd Hilditch Title: Director, President, Treasurer and Secretary

Name: Nancy J. Wolverson Title: Vice President, Exploration

Name: Thomas P. Erwin Title: Assistant Secretary

Headquarters Address: Suite 960, 1055 West Hastings Street

City, State, Zip: Vancouver, BC, Canada V6E 2E9

Phone: Toll Free: 1 (877) 792-6688 Fax: (604) 682-3860

E-mail Address: lore@summitpointuranium.com

If Business is a Limited Liability Company: Member Managed () Manager Managed ()

Name of 1st Member/Manager: Not applicable Title: _____

Business Address: _____

City, State, Zip: _____

Phone: _____ Fax: _____

E-mail Address: _____

Name of 2nd Member/Manager: _____ Title: _____

Business Address: _____

City, State, Zip: _____

Phone: _____ Fax: _____

E-mail Address: _____

If Business is a Partnership:

Names of Partners: Not applicable.

Business Address: _____

City, State, Zip: _____

Phone: _____

Fax: _____

E-mail Address: _____

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5. Ownership of Land Surface:

Private (Fee) ☐ BLM ☒ US Forest Service ☐

State Trust Land/School Sections ☐ State Sovereign Lands ☐

Other (please describe): _____

Name Henry Mountain, Field Station Address P.O. Box 99 Hanksville, Utah, USA 84734

6. Ownership of Minerals:

Private (Fee) ☐ BLM ☒ US Forest Service ☐

State Trust Land/School Sections ☐ State Sovereign Lands ☐

Other (please describe): _____

Name Henry Mountain, Field Station Address P.O. Box 99, Hanksville, Utah, USA, 84734.

BLM Claim Number(s): UMC 406646, 406647, 406648, 406650, 371505 and 371507.

Utah State Lease Number(s): Not applicable.

BLM/USFS Lease or Project File Number(s): UTU 080036

Name of Lessee(s): _____

7. Have the above surface and mineral owners been notified in writing? Yes ☒ No ☐

If no, why not? _____

8. Does the Entity have legal right to enter and conduct mining operations on the land covered by this notice? Yes ☒ No ☐

*Please be advised that if State Trust Lands are involved, notification to the Division of Oil, Gas and Mining alone does not satisfy the notification requirements of Mineral Leases upon State Trust Lands. Exploration or mining activity on State Trust Lands requires a minimum of 60 days notice to the Trust Lands Administration **prior** to commencing any activities. Please contact the School Institutional Trust Lands Administration (SITLA) at (801) 538-5508 for notification requirements.*

II. PROJECT LOCATION & MAP (Rule R647-3-105)

1. Project Location & Map (legal description):

County(ies): Garfield

____ 1/4, of ____ 1/4, of NW 1/4, Section: 21 Township: 35 S Range: 11 E

____ 1/4, of ____ 1/4, of ____ 1/4, Section: 21 Township: 35 S Range: 11 E

____ 1/4, of ____ 1/4, of ____ 1/4, Section: ____ Township: ____ Range: ____

UTM East: _____ (if known) UTM North: _____ (if known)

Name of Quad Map for Location: Copper Creek Benches, Utah 7.5'

2. Is the project within an incorporated area? ☐ Yes ☒ No

If yes, what is the town or city? _____

3. Location and Operations maps must be plotted at a scale to accurately identify locational landmarks and operations details. All maps must include a north arrow, scale, appropriate labels, and title box including the mine name, township, range and section.

- a. The **general location map** must be the scale of a USGS 7.5 minute series map or equivalent (1"=2000') and identify new or existing access roads.
- b. The **operations map** (1"=200' or other scale as determined necessary by the Division) must be labeled and identify:
 - i. The area to be disturbed;
 - ii. The location of any existing or proposed operations including access roads, drill holes, trenches, pits, shafts, cuts, or other planned activities; and
 - iii. Any adjacent previous disturbance for which the operator is not responsible.(Contact the Division for a list of consultants and land surveyors for mapping assistance.)

4. The proposed (5 acre or less) disturbed area (including access/haul roads) should be marked ON THE GROUND with metal T-Posts (or with some other marker of equal effectiveness). Markers should be appropriately spaced so that the next marker in either direction is clearly visible with the naked eye.

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III. OPERATION PLAN (Rule R647-3-106)

1. **Type of mining:** Surface (☒) Underground (☐)
2. **Mineral(s) to be mined:** Uranium
3. **Amount of material** to be extracted, moved, or proposed to be moved: 59,443 cubic yards
4. Will any **water, liquid chemicals, reagents, or other solutions** be used, produced or discharged as part of the mining or milling process? Yes (☐) No (☒) If yes, please describe (add extra pages if needed): _____
5. Provide a brief **description of the proposed mining operation**, and onsite processing facilities (add extra pages if necessary). Once an Ore Milling Agreement is obtained, the existing mineral stockpiles will be loaded into highway trucks with a Cat 980 loader (or similar equipment) and trucked off site for processing. Once removed, the site will be ripped and then reseeded.
6. (☐) **New Road(s):** Length _____(ft), Width _____(ft)
7. (☒) **Improved Road(s):** Describe improvements that need to be made to existing roads to access the site, including the Length _____ (ft) and Width _____ (ft) of new **disturbances**.
Historic road will be re-constructed to access the stockpile. The total disturbance is 0.3 acres. See attached map.
8. Total project surface **acreage to be disturbed:** 7.6 (acres) PLEASE SPECIFY EXACT ACREAGE (this will be used to determine surety bond amount – see #VI).
9. Proposed **startup date** (month, year): June 2011
10. Proposed **completion**, if known (month, year): _____

IV. OPERATION AND RECLAMATION PRACTICES (Rule R647-3-107, 108 & 109)

The reclamation and operation obligation is to keep the area clean and safe, minimize hazards to public safety, return the land to a useful condition, and reestablish at least 70 percent of the premining vegetative ground cover or within practical limits. To accomplish this, the Permittee /

Operator will need to perform reclamation concurrently, or at the completion (within one (1) year) of mining. Please refer to The Practical Guide to Reclamation in Utah, available at:
https://fs.ogm.utah.gov/pub/MINES/Coal_Related/RecMan/Reclamation_Manual.pdf.

1. *Keep the mining operation in a safe, clean, and environmentally stable condition.*
2. *Permanently seal all shafts and tunnels to prevent unauthorized or accidental entry.*
3. *Plug drill holes with a five foot cement surface plug. Holes that encounter fluids are to be plugged in the subsurface to prevent aquifer contamination.*
4. *Construct berms, fences, or barriers, when needed, above highwalls and excavations.*
5. *Remove, isolate, or neutralize all toxic materials in a manner compatible with federal and state regulations.*
6. *Remove all waste or debris from stream channels.*
7. *Dispose of any trash, scrap metal, wood, machinery, and buildings.*
8. *Conduct mining activities so as to minimize erosion and control sediment.*
9. *Reclaim all roads that are not part of a permanent transportation system.*
10. *Stockpile topsoil and suitable overburden prior to mining.*
11. *Stabilize highwalls by backfilling or rounding to 45 degrees or less, where feasible; reshape the land to near its original contour, and redistribute the topsoil and suitable overburden.*
12. *Properly prepare seedbed to a depth of six inches by pocking, ripping, discing, or harrowing. Leave the surface rough.*
13. *Reseed disturbed areas with adaptable species. (The Division recommends a mixture of species of grass, forb, and browse seed, and will provide a specific species list if requested.)*
14. *Plant the seed with a rangeland or farm drill, or broadcast the seed. Fall is the preferred time to seed.*

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V. VARIANCE REQUEST (Rule R647-3-110)

Any variance must be approved writing *in advance* by the Division

Any planned deviations from Rules R647-3-107, Operation Practices, R647-3-108, Hole Plugging Requirements, or R647-3-109, Reclamation Practices, as summarized above (see IV. Operation and Reclamation Practices Item # 1-14), should be identified below listing applicable rule number. Give justification for the variance(s) and alternate methods or measures to be utilized to meet the intent of the rule. Written approval from the Division will be given, if the proposed alternative methods to be used are consistent with the Act.

Are variances being requested? Yes () No (X)

Variance Requested

Item # Applicable Rule

Justification: _____

Alternate methods or measure to be utilized: _____

Attach additional page(s) if more variances are requested.

VI. **SURETY** (Utah Code Ann. §40-8-7(1)[c])

A reclamation contract and surety must be provided to and approved by the Division prior to commencement of operations. No surface disturbance is authorized until the surety is posted and approved in writing. The surety may be provided in the form of a certificate of deposit, a letter of credit, a surety bond, or cash. Please contact the Division for further information about submitting the surety. All mining operations are required to furnish and maintain reclamation surety to guarantee that the land affected is reclaimed (Utah Code Ann. §40-8-7(1)[c]).

The reclamation surety amount is based on the nature, extent and duration of operations. The amounts are based on data from current large mine surety and are used as a general guide, along with actual site conditions. Reclamation surety for small mines is reviewed every three (3) or five (5) years and adjusted as necessary for inflation/deflation based upon acceptable Costs Index. **Contact the Division for the dollar amount required for a three (3) or five (5) year period for this project.**

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VIII. SIGNATURE REQUIREMENT

CERTIFICATION

I state under penalty of perjury under the laws of the state of Utah and the United States of America that:

- a. I have read this form and declare the information, statements and/or documentation are true, correct and complete to the best of my knowledge and belief; AND
- b. I commit to the reclamation of the aforementioned small mining project as required by the Utah Mined Land Reclamation Act (40-8) and the rules as specified by the Board of Oil, Gas and Mining.
- c. **This certification must be signed by:** (1.) an executive officer if the applicant is a corporation; (2.) a partner if applicant is a partnership (general or limited); (3.) the owner if applicant is a sole proprietorship; **or** (4.) the member or manager if applicant is a limited liability company.

Signature:  Date: February 1, 2012

Name (typed or printed): Todd Hilditch

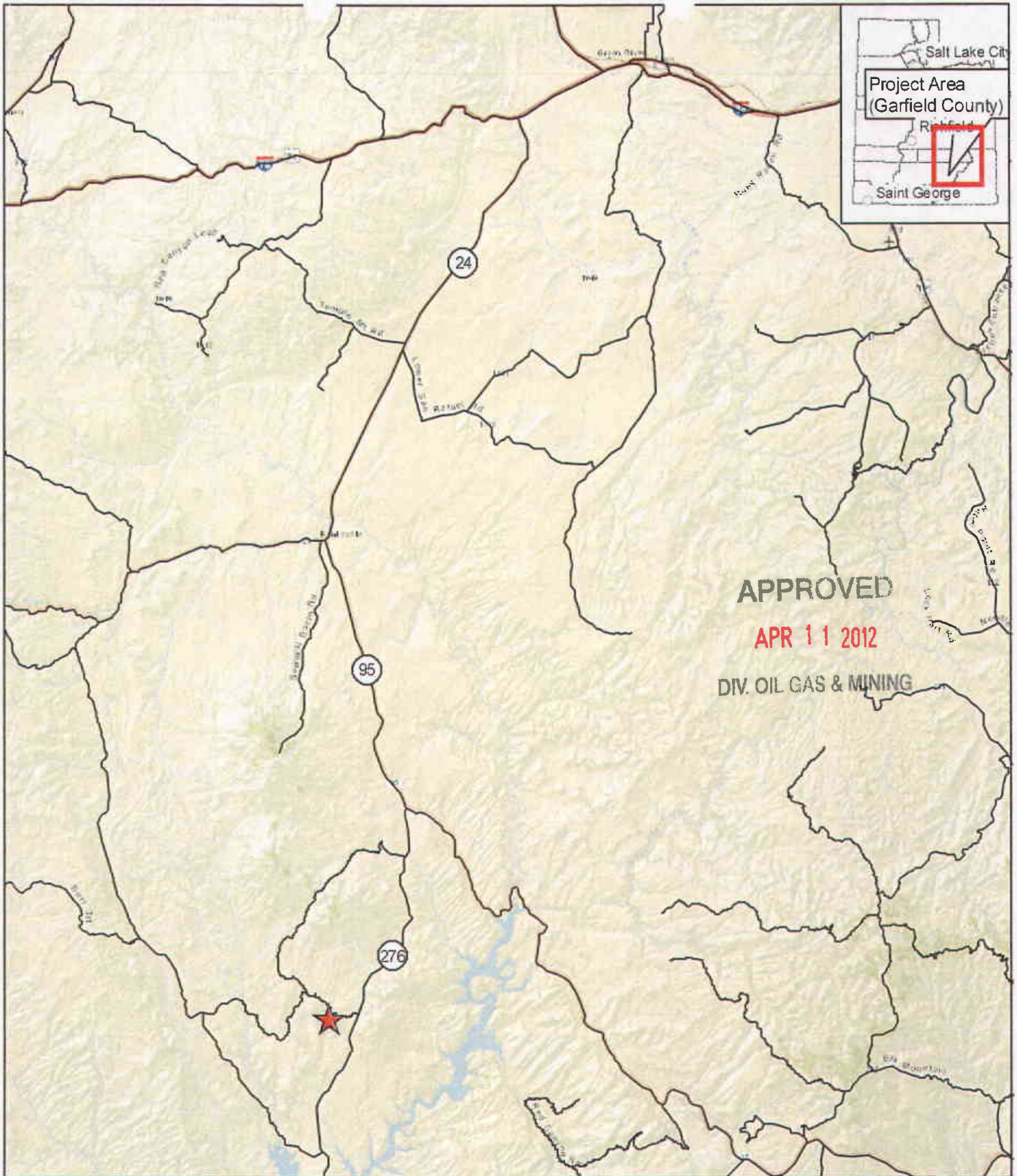
Title/Position (if applicable): Director, President, Treasurer and Secretary

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Explanation

-  Ticaboo Project
-  Roads

0 5 10 15 Miles

Projection: NAD 83, UTM Zone 12

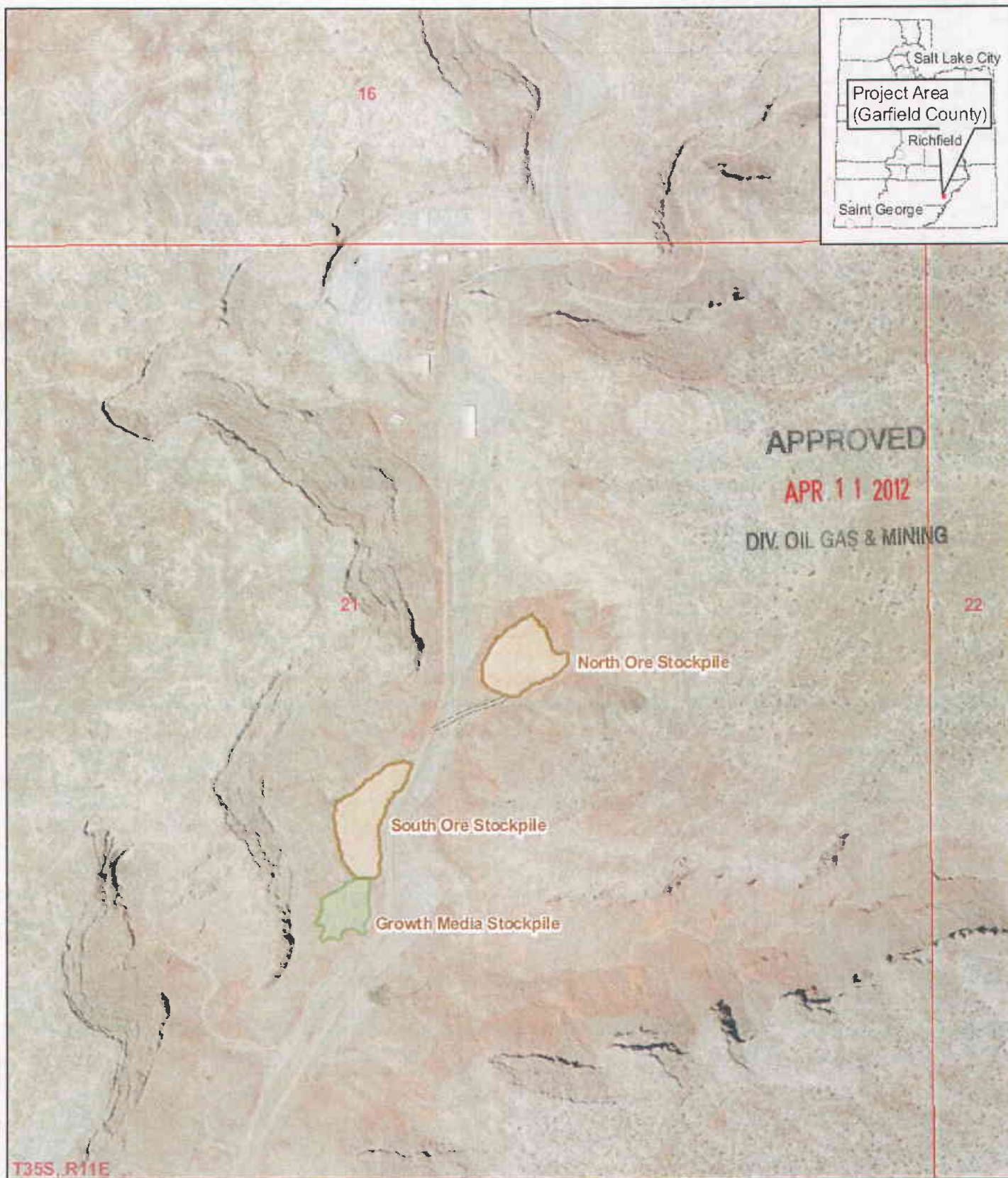
UCOLO EXPLORATION CORP.

TICABOO PROJECT





Project Location

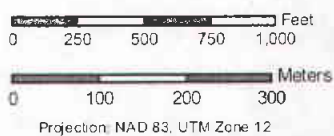
Figure 1

Client: UCOL	Drawn by: JGP
Revised:	Project No.: 2704
Drawn by:	
File Name:	2704X_Fig1_SatLocMap.mxd



Explanation

-  Access Road (0.3 acre)
-  Growth Media Stockpile (1.52 acres)
- Ore Stockpiles**
 -  North = 2.81 acres
 -  South = 3.01 acres



UCOLO EXPLORATION CORP.

TICABOO PROJECT

Project Location and
Existing Disturbance

Figure 2

10/20/07 M7200
03/27/2012
NAD 83 UTM Zone 12
2704X 17380 Fig2 Site/Reclam Revised 10/27/12.mxd

Bonding Calculations

Direct Costs

Subtotal Demolition and Removal	\$0.00
Subtotal Grading and Ripping	\$6,210.79
Subtotal Revegetation	\$14,509.60
Direct Costs	\$20,720.39

Indirect Costs

Mob/Demob	\$7,163.60	Estimate (see Attachment)
Contingency	\$1,036.00	5.0%
Engineering Redesign	\$518.00	2.5%
Main Office Expense	\$1,409.00	6.8%
Project Management Fee	\$518.00	2.5%
Subtotal Indirect Costs	\$10,644.60	16.8%

Total Cost 2010 \$31,365.00

Number of years 5
Escalation factor 0.012
Escalation \$1,928.00

Reclamation Cost Escalated \$33,293.00

Bond Amount (rounded to nearest \$1,000) \$33,000.00
2013 Dollars

Posted Bond

Difference Between Cost Estimate and Bond -\$33,000.00
Percent Difference

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Cost Estimate From Grand Rental Center, Moab, Utah	Base Equipment Cost (0-60 miles)	Equipment Cost per mile (>60 miles)	Miles >60	w/ Discount	Total Travel Cost
Mod					
D8R (9-45)(2nd2011)	\$889.00	\$9.63	102	10%	\$1,684.13
627G EROPS P-P (9-44) (2ND2011) Wheel Tractor-Scraper	\$814.00	\$9.26	102	10%	\$1,582.67
Permit					\$115.00
Pilot Car					\$200.00
Demob					
D8R (9-45)(2nd2011)	\$889.00	\$9.63	102	10%	\$1,684.13
627G EROPS P-P (9-44) (2ND2011) Wheel Tractor-Scraper	\$814.00	\$9.26	102	10%	\$1,582.67
Permit					\$115.00
Pilot Car					\$200.00
Subtotal					\$7,163.80

Notes:

Haulage rates include driver rates, loading and unloading of equipment at pick up sites.
Average rates for expected permit and pilot car are included.

Three equipment dealerships were identified as follows:

¹Grand Rental Center @ 1831 S. Highway 191, Moab, Utah 84532
Henderson Leasing Company @ 3071 S Highway 191, Moab, Utah 84532
Shumway Drilling and Construction @ 2380 Old City Park, Moab, Utah 84532

¹Mob/Demob estimate provided by.

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	Equipment Cost/month	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq	Total Eq. & Lab Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dls.	Units	Cost
Dozer DBR (8-45)(2nd2011)	\$16,375.00	\$95.56	10%	\$70.25	\$295.04	1	\$295.04/hour	hrs	acres	ms	ac/hour	17.4/hour			\$5,133.67
Multi-Shank Ripper 260-399 P (9-50)(2nd2011)	\$2,495.00	\$8.50	10%	\$3.00	\$25.32	1	\$25.32/hour		1468 CY		84.3 CY/hour	17.4/hour			\$440.59
Subtotal:															\$5,574.26

Assume: Ripping only required for 0.3 acres of road reclamation. Ripper is attached and towed by Dozer. Time for both is limited by ripper production.

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Project: Ticaboo Project
 Date: 02/06/12
 Prepared by: Enviroscientists, Inc.

WORKSHEET 7
 PRODUCTIVITY AND HOURS REQUIRED FOR RIPPER-EQUIPPED DOZER USE

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Ripping Activity:

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The Multi-Shank Ripper 260-359 P (9-50) (2nd2011) would be used to rip 0.3 acres of road and 1.5 acres growth media stockpile footprint for a total ripped area of 1.8 acres

Characterization of Dozer and Ripper Use:

The Dozer proposed for use is the D8R, with an Adjustable Parallelogram Multi-Shank Ripper 260-359 P attachment.

Description of Ripping (ripping depth, cut spacing, cut length, and material to be ripped):

For the described dozer-ripper rig, the ripping depth will be 0.5 feet, with a cut spacing of 3'10.4", and a cut length of 8'8". Soil data is unavailable at this time, but is assumed to be hard to cut, compact material.

Productivity Calculations:

$$\text{Cycle Time} = \frac{8.083333 \text{ ft}}{\text{cut length}} \div \frac{88 \text{ ft/min}}{\text{[speed]}} + \frac{0.25 \text{ min}}{\text{fixed turn time}^*} = 0.3 \text{ min/pass}$$

$$\text{Passes/Hour} = \frac{60 \text{ min/hr}}{\text{cycle time}} \div \frac{0.3 \text{ min/pass}}{\text{cycle time}} \times \frac{0.83}{\text{efficiency factor}} = 145.7 \text{ passes/hr}$$

$$\begin{aligned} \text{Volume Cut/Pass} &= \left(\frac{0.5 \text{ ft}}{\text{tool penetration}} \times \frac{3.866667 \text{ ft}}{\text{cut spacing}} \times \frac{8.083333 \text{ ft}}{\text{cut length}} \right) \div 27 \text{ ft}^3/\text{yd}^3 \\ &= 0.58 \text{ BCY/pass} \end{aligned}$$

$$\text{Hourly Production} = \frac{0.58 \text{ BCY/pass}}{\text{BCY/pass}} \times 145.7 \text{ passes/hr} = 84.3 \text{ BCY/hr}$$

$$\text{Hours Required} = \frac{1468 \text{ BCY}}{\text{bank volume to be ripped}^{**}} \div \frac{84.3 \text{ BCY/hr}}{\text{hourly production}} = 17.4 \text{ hr}$$

* Fixed turn time depends upon dozer used. 0.25 min/turn is normal.

** Remember to use the swell factor to convert from bank cubic yards to loose cubic yards when applying these data to Worksheet 5. Calculate separate dozer hauling of ripped material for each lift on that worksheet.

Data Source(s):

Characteristics of equipment found in the Caterpillar Performance Handbook, Ed 34, 2003.

Sarah Peters

From: Cade Petersen [jpetersen@wheelercat.com]
Sent: Friday, February 17, 2012 12:34 PM
To: 'Sarah Peters'
Subject: RE: Haulage Quote for D8 Dozer & 627 Scraper

Sarah,

You will possibly be looking at paying around \$80.00 to \$150.00 for a permit, it just depends on where the state will route us to haul,
the pilot car charges will possibly be around \$150.00 to \$250.00 a pilot car, again it just depends on what route and how long it would
take to the destination, and no you don't need to provide man power, are drivers can take care of everything from A to Z,
we just ask
that when we arrive to pick up the machines, that they start and run.

Cade Petersen | Lindon Cat Rental Manager | Wheeler Machinery Co
239 north 1800 west Lindon, Ut 84042 | Direct: 801 796 8333 | Cell: 801 368 0549
www.jpetersen@wheelercat.com

From: Sarah Peters [<mailto:speters@enviroincus.com>]
Sent: Friday, February 17, 2012 1:25 PM
To: Cade Petersen
Subject: RE: Haulage Quote for D8 Dozer & 627 Scraper

Thank you Cade. The quote looks great! Could you send me all charges, including Pilot cars and Permits, as well?

Sarah Peters
Environmental Specialist
Enviroscientists, Inc.

1650 Meadow Wood Lane
Reno, Nevada 89502

P: 775.826.8822
F: 775.826.8857
E: speters@enviroincus.com

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From: Cade Petersen [<mailto:jpetersen@wheelercat.com>]
Sent: Friday, February 17, 2012 11:29 AM
To: 'speters@enviroincus.com'
Subject: Haulage Quote for D8 Dozer & 627 Scraper

Sarah,

Machine haulage from Ticaboo,Ut to Moab,Ut

Sarah Peters

From: Ryan Timoney [ryan@graniteseed.com]
Sent: Monday, February 13, 2012 2:45 PM
To: Sarah Peters
Subject: RE: Enviroscientists seed quote

\$197.50 per acre

From: Sarah Peters [mailto:speters@enviroincus.com]
Sent: Monday, February 13, 2012 3:40 PM
To: Ryan Timoney
Subject: RE: Enviroscientists seed quote

Thank you Ryan. Could I get the cost with the inclusion of Palmer penstemon (Penstemon palmeri)?

Sarah

From: Ryan Timoney [mailto:ryan@graniteseed.com]
Sent: Monday, February 13, 2012 2:39 PM
To: Sarah Peters
Subject: RE: Enviroscientists seed quote

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Sarah:

Per our conversation the Palmer's phacelia is not available. I would suggest substituting with Palmer penstemon (Penstemon palmeri) or Desert marigold (Baileya multiradiata).

The price without the phacelia is \$187.50 per acre

Thank you,

Ryan Timoney
Granite Seed Company

From: Sarah Peters [mailto:speters@enviroincus.com]
Sent: Monday, February 13, 2012 3:11 PM
To: Ryan Timoney
Cc: Kaitlin C. Sweet
Subject: Enviroscientists seed quote

Hi Ryan,
Here is the table of seed type and amounts we would like a quote for. Let me know if you need any other information.

Species		Application Rate (lbs PLS ¹ /acre)
Common Name	Scientific Name	
Shadscale	<i>Atriplex confertifolia</i>	2.0
Four-wing saltbrush	<i>Atriplex canescens</i>	4.0
Desert spinach	<i>Atriplex polycarpa</i>	3.0
Quail brush	<i>Atriplex lentiformis</i>	3.0
White bursage	<i>Ambrosia dumosa</i>	1.0

Desert globemallow	<i>Sphaeralcea ambigua</i>	0.5
Palmer's phacelia	<i>Phacelia palmeri</i>	0.5
Total		14.0

Thanks,

Sarah Peters
Environmental Specialist
Enviroscientists, Inc.

1650 Meadow Wood Lane
Reno, Nevada 89502

P: 775.826.8822
F: 775.826.8857
E: speters@enviroincus.com

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Haulage for a D8 Dozer: 0-60 miles \$889.00 after 60 miles, it is \$9.63 a mile, for 162.0 miles = \$1871.26 w/10% discount \$1684.13

Haulage for a 627 scraper: 0-60 miles \$814.00 after 60 miles, it is \$9.26 a mile, for 162.0 miles = \$1758.00 w/10% discount \$1582.66
these rates are for one way haulage.

There will also be additional charges for Pilot cars and Permits to haul these machines, if your not happy with what you see, or if you have any questions concerning this please fill free to contact me at anytime.

Thanks for calling Sarah, and have a good day

Cade Petersen | Lindon Cat Rental Manager | Wheeler Machinery Co
239 north 1800 west Lindon, Ut 84042 | Direct: 801 796 8333 | Cell: 801 368 0549
[www.jpetersen@wheelercat.com](mailto:jpetersen@wheelercat.com)

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Project: Ticapoo Project
 Date: 02/06/12
 Prepared by: Enviroscientist, Inc.

WORKSHEET 11A
 PRODUCTIVITY OF PUSH-PULL OR SELF-LOADING SCRAPER USE

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Earthmoving Activity:

The self-loading scraper would be used to move growth medium from the growth medium stockpile an approximate distance of 50 feet to the ore stockpiles after regrading has occurred. The growth media will cover 24 inches over the entire area of both ore stockpiles making the total volume to be scraped 19,037 CY.

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Characterization of Scraper Used (type, capacity, etc.):

A 627G Wheel Tractor-Scraper with a struck capacity of 15.7 CY, an empty weight of 82,773 lb and a rated payload of 52,800 lb.

Description of Scraper Use (origin, destination, grade, haul distance, capacity, etc.):

A 627G Wheel Tractor-Scraper would be used to move growth medium from the growth medium stockpile, 50 feet to the ore stock pile. The scraper capacity is 15.7 CY. Grade of area is five percent.

Productivity Calculations:

Cycle Time = $\frac{0.5}{\text{load time (push-pull is per pair)}} \text{ min} + \frac{0.1}{\text{loaded trip time}} \text{ min} + \frac{0.6}{\text{maneuver and spread time}} \text{ min} + \frac{0.1}{\text{return trip time}} \text{ min}$

= $\frac{1.3}{\text{(push-pull is per pair)}} \text{ min}$

Hourly Production = $\frac{15.7}{\text{capacity*}} \text{ LCY} \times \frac{60}{\text{min/hr}} \div \frac{1.3}{\text{cycle time**}} \text{ min} \times \frac{0.83}{\text{efficiency factor}}$

= $\frac{615.6}{\text{(push-pull is per pair)}} \text{ LCY/hr}$

Hours Required = $\frac{18715.0}{\text{volume to be handled}} \text{ LCY} \div \frac{615.6}{\text{net hourly production}} \text{ LCY/hr} = \frac{30.4}{\text{hr}}$

* The average of the struck and heaped capacities; use total for two scrapers for push-pull.

Data Source(s):

Equipment characteristics found in the Caterpillar Performance Handbook, Ed 34, 2003.

Assume: Quote for seed mix reference Table 1 in text
 Reseeding includes one stockpile, footprint of growth media stockpile and road
 Assume: Buy ATV seed spreader, with 2 hours of associated labor
 Assume: Rent ATV for one day determined by Moab ATV rental rate

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	Equipment Cost/month	Hourly Operating Costs	Equipment Overhead	Operator's Hourly Wage Rate	Hourly Cost	Number of Men or Eq.	Total Eq. & Lab Costs	Units	Quantity	Units	Production Rate	Units	Equip. + Labor Time/Dis	Units	Cost
Dozer D8R (9-45)(2nd2011)	\$16,175.00	\$99.95	10%	\$70.25	\$299.04	1	\$299.04	\$/hour		7.4 acres	.343 ac/hour		2.2 hour		\$16,510.00
Subtotal															\$16,510.00

Assume: Dozer will grade road and reconlour stock pile as needed to meet a slope standard of no greater than 3:1. Above quantity includes total Project Area surface disturbance foot print.

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Earthwork and Mob/Demob Cost Summary	
	Cost
Grading Cost	\$836.53
Ripping Cost	\$5,574.26
Seeding Cost	\$14,509.60
Mob/Demob Cost Estimate	\$7,163.60
Subtotal	\$27,884.00

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